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... consistently adjust the tail or head pointer by performing a compare-and-swap 137

Page 5. operation. Since we implement the queue as a circular array, each queue ...

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... always access the counter with the pointer in any ... compare and swap, or else use array

indices instead ... is vulnerable to memory leakage with circular structures. ...

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CH Shann, TL Huang, C Chen - Proceedings of the Seventh International Conference on ..., 2000 - doi.ieeecs.org

... Suppose a process accesses a pointer to a node and ... implement a circular list based

on a finite array. ... In this way, the circular list successfully serves as ...

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... based on a circular singly-linked list ... a pointer, to always access the counter with

the pointer in any ... word compare-and-swap, or else use array indices instead ...

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... a non-blocking queue based on a circular singly-linked ... to always access the counter

with the pointer in any ... compare-and-swap, or else use array indices instead ...

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[CITATION] [Practical, Fast and Simple Concurrent FIFO Queues Using Single Word Synchronization Primitives](#)

C Evequoz - Reliable Software Technologies-ADA-Europe 2008: 13th ADA- ..., 2008 - Springer

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[CITATION] [Circular Buffer Implementation of SGI'S Deque Container](#)

A Jarrahian, G Moore, J Percent, F Vardaro, M ...

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[... flags with concurrent non-blocking insert and remove operations using a double compare-and-swap ...](#)

NN Shavit, PA Martin, GL Steele Jr - US Patent 7,000,234, 2006 - Google Patents

... performing the DCAS operation on the two pointer word and ... of a deque implemented

as an array in accordance ... of the linear depiction of a circular buffer, namely ...

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J Aspnes, M Herlihy, N Shavit - Journal of the ACM (JACM), 1994 - portal.acm.org

... preemption or swapping. ... balancers, in a manner similar to the way in which comparison ...

pointer (either preassigned or chosen at random) to some output pointer ...

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PTY Zhang - SPAA 2001: Thirteenth Annual ACM Symposium on Parallel ..., 2001 - cs.chalmers.se

... way by designing the queue as a circular array we overcome ... pointer head 5. process

b enqueues data and updates the ... describe that an entry in the array is empty ...

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JL Bentley, MD McIlroy - Software - Practice and Experience, 1993 - cs.ubc.ca
 ... a comparison function that takes two pointer arguments. ... use the standard string-comparison routine, strcmp ... len, strcmp); To sort an array of pointers to strings ...
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DR Musser, AA Stepanov - Software - Practice and Experience, 1994 - exch.hpl.hp.com
 ... An array representation of sequences commonly uses a set of ... a linked-list representation uses a set of pointers, usually with the null pointer as the off ...
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[A methodology for implementing highly concurrent data structures](#)

M Herlihy - Proceedings of the second ACM SIGPLAN symposium on ..., 1990 - portal.acm.org
 ... imple- mentation, employing fetch&add and swap, that per ... stack = record[size: integer, data: array[item ... new version (#2). If a pointer comparison indicates that ...
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 ... 1. 2. 3. Procedure Enqueue (i, qcuc-array, qcuc-ptns) ... b. Try to set the tail pointer. Stay in the retry loop until the Compare-and-Swap succeeds. ...
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 ... a pointer, to always access the counter with the pointer in any ... a double-word compare and swap, or else use array indices instead of pointers, so that ...
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JM MELLOR-CRUMMEY, ML SCOTT - ACM Transactions on Computer Systems, 1991 - cs.rochester.edu
 ... Compare-and-swap (addr, old ... 2.3. Array-Based Queuing Locks Even using a ticket lock with porportional backoff, it is not possible to obtain a lock with an ...
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D Burtinas, G Mercier, W Gropp - Proceedings of the International Symposium on Cluster ..., 2006 - doi.ieeecomputersociety.org
 ... If the compare-and- swap succeeds in swapping ... Each process keeps an array of pointers to the receive ... offsets means that accessing a pointer requires performing ...
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[Wait-free parallel algorithms for the union-find problem - ► washington.edu](#) [PS]

RJ Anderson, H Woll - Proceedings of the twenty-third annual ACM symposium on ..., 1991 - portal.acm.org
 ... list and compare@swap are universal while test&set is not. ... lihy [Her90] studied the implementation of a num- ber of data structures in terms of compare@swap. ...
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CH Shann, TL Huang, C Chen - Proceedings of the Seventh International Conference on ..., 2000 - doi.ieeeecs.org
 ... Section 3 describes a new array-based concurrent queue algorithm ... Each time a process creates a pointer to a ... counter reflects the num- ber of pointers that point ...
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[A nonblocking algorithm for shared queues using compare-and-swap](#)

S Prakash, YH Lee, T Johnson - Computers, IEEE Transactions on, 1994 - ieeeexplore.ieee.org

... is impractical, as it requires an infinite array size for ... NONBLOCKING ALGORITHM FOR
SHARED QUEUES USING COMPARE-AND-SWAP ... the nextobject pointer from ENQ to DEQ ...
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... a pointer, to always access the counter with the pointer in any ... a double-word compare-and- swap, or else use array indices instead of pointers, so that ...

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... a comparison function that takes two pointer arguments. ... use the standard string-comparison routine, strcmp ... len, strcmp); To sort an array of pointers to strings ...

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S Prakash, YH Lee, T Johnson - Computers, IEEE Transactions on, 1994 - ieeeexplore.ieee.org

... permits an arbitrary number of enqueueers and dequeuers but is impractical, as it requires an infinite array size for ... The pointer is a double-size variable ...

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... and 132 arc private variables, and C is a double-size shared ... to the queue, a process sets the tail pointer to the ... Procedure Enqueue (i, qcuarray, qcuarray-ptrs ...

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V Luchangco, M Moir, N Shavit - Proceedings of the fifteenth annual ACM symposium on ..., 2003 - portal.acm.org

... SNAPSHOT(m, a[1..m]) operation returns an array V[1 ... that the low-order bit of every pointer is zero ... 4.3 DCSS and CAS To implement a double-compare single-swap ...

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MM Michael - LECTURE NOTES IN COMPUTER SCIENCE, 2003 - Springer

... the anchor pointers from holding arbitrary pointer values, thus ... The size of the array can be chosen such ... allow dynamic deque size using double- width single ...

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[PS] [The Pablo Self-Denying Data Format](#)

RA Aydt - University of Illinois at Urbana-Champaign, Department of ..., 1993 - wotug.kent.ac.uk

... to perform the byte swapping operations. ... 43 delete structureP; 44 Array *destinationPE = messageRecord ... FieldDescriptor("timestamp", attributes, DOUBLE, 0); 50 ...

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... same way that a process keeps an array of pointers to the ... data is described by using an array of address ... We found that using a shadow head pointer reduced one ...

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